

Appl. No. 10/772,753
Amdt. Dated 04/28/2006
Reply to Office action of January 6, 2006
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-7 and 11-14 have been cancelled.

8. (Currently amended) The tire of claim 6 15, characterized in that:
the parallel cords are made of metal.

9. (Previously presented) The tire of claim 8, characterized in that:
the parallel cords are made of steel.

10. (Currently amended) The tire of claim 6 15, characterized in that:
the parallel cords are made of fabric.

15. (Currently amended) ~~The tire of claim 14 characterized in that:~~

A pneumatic radial ply runflat tire having a tread; two sidewalls with shoulders; a carcass comprising one or more outer radial carcass plies, two bead regions each containing an inextensible annular bead, an innerliner a two-part discontinuous ply with one portion contained in each sidewall and disposed between two wedge inserts of substantially equal flexibility; and one or more belts located between the tread and the outer radial carcass ply, the tire comprising:
each combination of two wedge inserts with the portion of the two-part discontinuous ply is in a sidewall flex area located axially between the one or more outer radial carcass plies and the innerliner, and extending radially approximately from a location near the bead region to an approximate location near the shoulder;

each of the two portions of the two-part discontinuous ply is made from two layers of cross-biased fabric;

each of the cross-biased fabric layers is made of parallel-aligned cords;

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the parallel-aligned cords of a first fabric layer are oriented at an angle with respect to the radial direction that is approximately equal in magnitude but opposite in direction to the parallel-aligned cords of a second fabric layer of the two layers of cross-biased fabric; and

the parallel-aligned cords of the respective fabric layers are oriented at angles of between 40 degrees and 65 degrees with respect to the radial direction.

16. (Currently amended) ~~The tire of claim 14~~ characterized in that:

A pneumatic radial ply runflat tire having a tread; two sidewalls with shoulders; a carcass comprising one or more outer radial carcass plies, two bead regions each containing an inextensible annular bead, an innerliner a two-part discontinuous ply with one portion contained in each sidewall and disposed between two wedge inserts of substantially equal flexibility; and one or more belts located between the tread and the outer radial carcass ply, the tire comprising:

each combination of two wedge inserts with the portion of the two-part discontinuous ply is in a sidewall flex area located axially between the one or more outer radial carcass plies and the innerliner, and extending radially approximately from a location near the bead region to an approximate location near the shoulder;

each of the two portions of the two-part discontinuous ply is made from two layers of cross-biased fabric;

each of the cross-biased fabric layers is made of parallel-aligned cords;

the parallel-aligned cords of a first fabric layer are oriented at an angle with respect to the radial direction that is approximately equal in magnitude but opposite in direction to the parallel-aligned cords of a second fabric layer of the two layers of cross-biased fabric; and

the parallel-aligned cords of the respective fabric layers are preferably oriented at angles of between about 45 and 55 degrees with respect to the radial direction.

17. (Currently amended) The tire of claim ~~14~~ 15 characterized in that:

the parallel-aligned cords of the respective fabric layers are made of materials from the class of materials that includes nylon and rayon.

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18. (Currently amended) The tire of claim ~~13~~ 15 characterized in that:

each of the two portions of the two-part discontinuous ply is made from one or more layers of parallel cords which are wavy with respect to the radial direction such that the parallel cords of each of the one or more layers are defined by angles θ and ϕ that are between 50 degrees and 100 degrees.

19. (Previously presented) The tire of claim 18, characterized in that:

the parallel cords are made of metal.

20. (Currently amended) The tire of claim ~~13~~ 15 characterized in that:

turn-up ends of the outer radial carcass ply are substantially contiguous with the main structural portion of the outer radial carcass ply; and

the free ends of the ply turn up ends extend from above the corresponding bead upward to the mid-height of the sidewall.